CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO -Residency layout in ward no 07, Byatarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathya Construction Bangalore.
Date of Testing	21/04/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.9**	
9.5	70-88	**83.6**	
4.75	53-71	**64.2**	
2.36	42-58	**49.1**	
1.18	34-48	**38.2**	
0.6	26-38	**32.9**	
0.3	18-28	**23.4**	
0.15	12-20	**15.6**	
0.075	4-10	**7.1**	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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Name of Work	Improvements to side in DEO -Residency layout in ward no 07, Byatarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathya Construction Bangalore.
Date of Testing	21/04/2015
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirements**
13.2	79-100	**98.4**	
9.5	70-88	**82.1**	
4.75	53-71	**63.4**	
2.36	42-58	**48.3**	
1.18	34-48	**39.2**	
0.6	26-38	**33.4**	
0.3	18-28	**22.6**	
0.15	12-20	**16.9**	
0.075	4-10	**6.8**	

AE-1

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TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Bituminous Concrete

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO-Residency layout in ward no. 07, Bytarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathy Construction Bangalore.
Date of Testing	21/04/2015
Reference	**MORTH Table 500-17**

Sl. No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	21.7	22.1	Satisfactory (As per MORTH for BC, Maximum allowed AIV is 24 %)
2	22.5		

AE-1
2

Test	Result in %	Combined Flekiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	12.4	25.9	Satisfactory (As per MORTH for BC, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	13.5		

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TEST REPORT

WATER ABSORPTION TEST OF ROAD AGGREGATES

Bituminous Concrete (BC)

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO-Residency layout in ward no. 07, Bytarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathy Construction Bangalore.
Date of Testing	21/04/2015

Method of Test	Sample No.	Water Absorption in %	Average Water Absorption in %	As per MORTH Table 500-17	Remarks
IS : 2386 (Part 3)	1	0.84	0.87	**2 % Maximum**	Satisfactory
	2	0.88			
	3	0.89			

A-2-1

2

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TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Concrete

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO-Residency layout in ward no. 07, Bytarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathy Construction Bangalore.
Date of Testing	21/04/2015

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-17	Remarks
IS 6241-1971 (Reafirmed 2003))	1	3.8	3.8	**5 % Maximum**	Satisfactory
	2	3.6			
	3	4.1			

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Accredited by NABL as per ISO/ IEC 17025 : 2005

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Kodegahalli Sub Division,
BBMP.

23rd April 2015

Dear Sir,

Sub: Improvements to side in DEO -Residency layout in ward no 07, Byatarayanapura Kodegahalli Sub Division'.
Testing of cubes – Reg.

As requested the 7th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO -Residency layout in ward no 07, Byatarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathya Construction Bangalore.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Drain)	16/04/2015	23/04/2015	7	8.18	336	**14.93**	**14.84**
2					8.16	332	**14.76**	
3					8.17	334	**14.84**	

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO-Residency layout in ward no. 07, Bytarayanapura Kodegahalli Sub Division.
Name of the Agency	M/s. Sathy Construction Bangalore.
Date of Testing	13/04/2015
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	513	500	Satisfactory
6	U T S (N/Sq.mm)	570	545	Satisfactory

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodegahalli Sub Division, BBMP
Name of Work	Improvements to side in DEO-Residency layout in ward no. 07, Bytarayanapura Kodegahalli Sub Division.
Name of Agency	M/s. Sathy Construction Bangalore.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Drain)	15/04/2015	13/05/2015	28	8.19	370	**16.44**	**16.53**
2					8.21	372	**16.53**	
3					8.22	374	**16.62**	

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